AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended) A method for forming a metal oxide film ~~comprising,~~

comprising the steps of:

~~when~~ forming a metal oxide film ~~is formed~~ by conducting a thermal treatment on a

coating film containing an organic metal compound formed on an inner wall of a tube, and

performing

an ultraviolet irradiation treatment or

an ozone treatment

on the coating film prior to or simultaneously with the thermal treatment;

wherein the tube has an opening and a length, and wherein the size of the opening is not

more than 2 mm and the length is not less than 30 cm.

2. (Currently Amended) The method for forming a metal oxide film of claim 1, wherein

the ultraviolet irradiation treatment or the ozone treatment is ~~preformed~~ performed prior to the

thermal treatment and simultaneously with a drying process of the coating film.

3. (Currently Amended) The method for forming a metal oxide film of claim 1, wherein

the step of performing an ultraviolet irradiation treatment ~~is executed via~~ further comprises the

step of forming a mask of a predetermined pattern on the coating film.

4. (Original) The method for forming a metal oxide film of claim 1, wherein the tube has

the size of the opening in the range of 0.5 to 2 mm and the length in the range of 30 cm to 3 m.

5. (Currently Amended) A method for forming a secondary electron emission film of a

gas discharge tube ~~comprising,~~ comprising the steps of:

~~when~~ forming a secondary electron emission film formed of a metal oxide film ~~is formed~~

by conducting a thermal treatment on a coating film containing an organic metal compound

formed on an inner wall of a glass tube, and

performing

an ultraviolet irradiation treatment or

an ozone treatment

on the coating film prior to or simultaneously with the thermal treatment,

wherein the glass tube is an elongated glass tube having an inner diameter of not more

than 2 mm and having a length of not less than 30 cm.